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RAW SEQUENCE LISTING DATE: 08/14/2002
PATENT APPLICATION: US/10/030,544 TIME: 14:05:36

Input Set : A:\NIH0376.ST25.txt
Output Set: N:\CRF3\08142002\J030544.raw

<110> APPLICANT: Schmidt, Alexander C.
Skiadopoulos, Mario H.
Collins, Peter L.
Murphy, Brian R.
Bailly, Jane E.
Durbin, Anna P.
<120> TITLE OF INVENTION: Attenuated Human-Bovine Chimeric Parainfluenza Virus (PIV) Vaccines
<130> FILE REFERENCE: Nih-0376
<140> CURRENT APPLICATION NUMBER: 10/030,544
<141> CURRENT FILING DATE: 2002-01-08
<150> PRIOR APPLICATION NUMBER: PCT/US00/17066
<151> PRIOR FILING DATE: 2000-06-15
<150> PRIOR APPLICATION NUMBER: 60/143,134
<151> PRIOR FILING DATE: 1999-07-09
<160> NUMBER OF SEQ ID NOS: 31
<170> SOFTWARE: PatentIn version 3.1
<210> SEQ ID NO: 1
<211> LENGTH: 7
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Sequence flanking sites of sequence polymorphism in BPIV3 Ka
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62 tccaccggtg ca 12

65 <210> SEQ ID NO: 4

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87 <400> SEQUENCE: 5
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91 <210> SEQ ID NO: 6
92 <211> LENGTH: 10
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94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Sequence flanking site for introduction of Bsi W1 site for rBPIV3
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106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Sequence flanking site for introduction of Bsi W1 site for rBPIV3
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117 <210> SEQ ID NO: 8
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119 <212> TYPE: DNA
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123 <223> OTHER INFORMATION: Sequence flanking site for introduction of Bsi W1 site for rHPIV3
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130 <210> SEQ ID NO: 9
131 <211> LENGTH: 10
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence

135 <220> FEATURE:

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145 <212> TYPE: DNA
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148 <220> FEATURE:
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156 <211> LENGTH: 12
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158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
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177 taaccatggt ga 12
180 <210> SEQ ID NO: 13
181 <211> LENGTH: 12
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185 <220> FEATURE:
186 <223> OTHER INFORMATION: Sequence flanking introduced restriction site at N gene stop codo
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189 <400> SEQUENCE: 13
190 gcacttaagc ac 12
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199 <223> OTHER INFORMATION: Sequence flanking mutation to restore context for N gene start co
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203 caaaaatgtt ga 12
206 <210> SEQ ID NO: 15
207 <211> LENGTH: 12

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209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Sequence flanking mutation to restore context for N gene stop cod
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220 <211> LENGTH: 40
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224 <220> FEATURE:
225 <223> OTHER INFORMATION: Sequence flanking N gene start codon in rJS
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231 <210> SEQ ID NO: 17
232 <211> LENGTH: 40
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Sequence flanking N gene start codon in cKa and cSF
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243 <210> SEQ ID NO: 18
244 <211> LENGTH: 40
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Sequence flanking N gene start codon in Ka and SF
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256 <211> LENGTH: 40
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Sequence flanking N gene stop codon in rJS
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268 <211> LENGTH: 40
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
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279 <210> SEQ ID NO: 21
280 <211> LENGTH: 40

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<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Sequence flanking N gene stop codon in Ka and SF
<400> SEQUENCE: 21
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<210> SEQ ID NO: 22
<211> LENGTH: 15456
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<213> ORGANISM: Bovine Parainfluenza Virus 3 (Ka strain)
<400> SEQUENCE: 22
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taaagaactt taccgaaagg taaggggaaa gaaatcctaa gactgtaatc atgttgagtc 120
tattcgacac attcagtgcg cgtaggcagg agaacataac gaaatcagct ggtggggctg 180
ttattcccgg gcaaaaaaac actgtgtcta tatttgctct tggaccatca ataacagatg 240
acaatgataa aatgacattg gctcttctct ttttgtctca ttctttagac aatgaaaagc 300
agcatgcgca aagagctgga tttttagttt ctctgttatc aatggcttat gccaacccag 360
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